

**1. Identification**

**Product Identification**

**Product Identifier:** CRACK-PAC® (ETIPAC10, ETIPAC10KT)  
**Recommended Use:** Two Component Low Viscosity Injection Epoxy  
**Use Restrictions:** None Known.  
**UN Number:** 3082  
**Proper Shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (Benzene-1,3-dimethanamine(MXDA), Bisphenol-A-Epichlorohydrin Resin), 8, II, Marine Pollutant  
**DG Class:** 8 (9)  
**Packing Group:** II  
**Hazchem Code:** 2W

**Company Identification**

**Company:** Simpson Strong-Tie Australia Pty Limited  
**Address:** Unit 1/16 Kenoma Place  
 Arndell Park, NSW 2148  
 Australia  
**Phone:** +612 9831 7700  
**Website:** www.strongtie.com.au  
**Emergency:** 13 11 26

**Company:** Simpson Strong-Tie New Zealand  
**Address:** 28 Arrenway Drive  
 Albany, Auckland 0632  
 New Zealand  
**Phone:** +64 9 477 4440  
**Website:** www.strongtie.co.nz  
**Emergency:** 0800 POISON (0800 764 766)

**2. Hazard Identification**

**General Information**

CRACK-PAC® Injection Epoxy is a two part system. The two parts of this product have been assessed according to GHS and are classified below. The final hardened material is considered nonhazardous.

**Resin (blue side) GHS Classification**

**Classification**

<b>Physical Hazards:</b>	Not Classified.	
<b>Health Hazards:</b>	Skin Corrosion/Irritation	Category 2
	Serious Eye Damage/Irritation	Category 2A
	Sensitization, Skin	Category 1
<b>Environmental Hazards:</b>	Acute Aquatic Environmental Hazard	Category 2
	Chronic Aquatic Environmental Hazard	Category 2

**Label Elements**



Exclamation Mark



Environment

**Signal Word:** **WARNING!**

**Hazard Statements:** Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

**Precautionary Statements:**

**Prevention:** Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. Avoid breathing mist or vapor. Wash thoroughly after handling. Avoid release to the environment.

**Response:** If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before re-use. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Collect Spillage.

**Storage:** Store locked up. Store in a well-ventilated place. Store between 45-90°F (7-32°C).

**Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulations.

# CRACK-PAC® Injection Epoxy

## SAFETY DATA SHEET

### Hardener (clear side) GHS Classification

#### Classification

<b>Physical Hazards:</b>	Not Classified.	
<b>Health Hazards:</b>	Acute Toxicity, Oral	Category 4
	Acute Toxicity, Dermal	Category 4
	Acute Toxicity, Inhalation	Category 4
	Skin Corrosion/Irritation	Category 1B
	Serious Eye Damage/Irritation	Category 1
	Sensitization, Skin	Category 1
	STOT, Single Exposure	Category 1 (corrosive to the respiratory tract)
<b>Environmental Hazards:</b>	Acute Aquatic Environmental Hazard	Category 3
	Chronic Aquatic Environmental Hazard	Category 3

#### Label Elements



Corrosion



Exclamation Mark

<b>Signal Word:</b>	<b>DANGER!</b>
<b>Hazard Statements:</b>	Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Corrosive to the respiratory tract. Harmful to aquatic life with long lasting effects.
<b>Precautionary Statements:</b>	
<b>Prevention:</b>	Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing must not be allowed out of the workplace. Do not breathe vapor. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment.
<b>Response:</b>	If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before re-use. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Collect Spillage.
<b>Storage:</b>	Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store between 45-90°F (7-32°C).
<b>Disposal:</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.

### Hazards Not Otherwise Classified (HNOC)

None known.

### 3. Composition Information

#### General Information

This product is a mixture. Hazardous ingredients for each component are listed below. May include other nonhazardous ingredients. May include other trace ingredients, see Section 15.

#### Resin (blue side)

Chemical Name	CAS Number	Weight %
Bisphenol A/Epichlorohydrin	25068-38-6	50-80

#### Hardener (clear side)

Chemical Name	CAS Number	Weight %
Benzene-1,3-dimethanamine	1477-55-0	70-90
Diethylenetriamine	111-40-0	10-30

## 4. First-Aid Measures

### General Information

Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. You should call the Poisons Information Center if you feel you may have been harmed, burned, or irritated by this product. The number is 13 11 26 (24hr). Ready access to running water and accessible eyewash is required. Wash contaminated clothing before reuse.

### Routes of Exposure

**Eye Contact:** Immediately flush eyes with plenty of cool water for at least 15 minutes while holding the eyes open. Remove contact lenses if present and easy to do. If redness, burning, blurred vision, or swelling persists, **consult a physician.**

**Skin Contact:** Remove contaminated clothing, immediately wash affected area with soap and water. Do not apply greases or ointments. If skin irritation persists, **consult a physician.**

**Ingestion:** Rinse mouth immediately. Give large amounts of milk or water, if person is conscious. Only induce vomiting at the instruction of medical personnel. **Consult a physician.**

**Inhalation:** Immediately remove from further exposure. **Get immediate medical assistance.** For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Give supplemental oxygen, if available. If breathing has stopped, assist ventilation with a mechanical device.

### Most Important Symptoms

Irritant effects. Sensitization. Symptoms include itching, burning, redness and tearing. May cause damage to mucous membranes in nose, throat, lungs and bronchial system. Cough. Labored breathing. Be aware that symptoms of lung edema (shortness of breath) may develop up to 24 hours after exposure. Prolonged contact causes serious eye and tissue damage. May cause serious chemical burns to the skin.

## 5. Fire-Fighting Measures

**Suitable Extinguishing Media:** Extinguish with foam, carbon dioxide, dry powder, or water fog.

**Unsuitable Extinguishing Media:** None known.

**Fire and Explosion Hazard:** Do not use a solid water stream as it may scatter and spread fire.

**Hazards during Fire-Fighting:** Hazardous decomposition products may occur when materials polymerize at temperatures above 500 °F (260°C). Do not allow run-off from fire-fighting to enter drains or water courses.

**Fire-Fighting Procedures:** Use standard fire-fighting procedures and consider the hazards of other involved materials. In case of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn. Move containers from fire area if you can do so without risk. Cool containers with flooding quantities of water until well after fire is out. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

**Hazchem Code:** 2Y (resin) 2W (hardener)

**Combustion Products:** Carbon dioxide. Carbon monoxide. Nitrogen Oxides. Organic Compounds. Acids.

## 6. Accidental Release Measures

### Personal Precautions

Keep unnecessary personnel away. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

### Clean-Up Methods

**Small spills:** Wipe up with absorbent material (e.g. cloth, fleece). Place in a leak-proof container. Seal tightly for proper disposal. Clean surface thoroughly.

**Large spills:** Approach suspected leak areas with caution. Evacuate and ventilate the area. Stop the flow of material, if this is without risk. Dike far ahead of spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product. Place in a leak-proof container. Seal tightly for proper disposal. Following product recovery, flush area with water. Prevent entry into waterways, sewer, basements or confined areas.

### Environmental Precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so.

**7. Handling and Storage**

**Handling**

Mechanical ventilation or local exhaust ventilation is recommended. Keep away from open flames, hot surfaces and sources of ignition. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Observe good industrial hygiene practices.

**Storage**

Store in a closed container away from incompatible materials. Keep in original container. Keep container tightly closed. Store in a dry place out of direct sunlight. Store between 45-90°F (7-32°C). Keep away from heat and sources of ignition. Store in a well-ventilated place. Store locked up. Keep out of the reach of children.

**8. Exposure Controls / Personal Protection**

**Exposure Limits**

Component	Australia Workplace OELs	New Zealand WES	US. ACGIH (TLV)	South Africa R:1179 (1995) OEL-CL
Benzene-1,3-dimethane amine (CAS 1477-55-0)	0.1 mg/m <sup>3</sup> (Ceiling)	0.1 mg/m <sup>3</sup> (Ceiling)	0.1 mg/m <sup>3</sup> (Ceiling)	N/E
Diethylenetriamine (CAS 111-40-0)	1 ppm (TWA)	1 ppm (TWA)	1 ppm (TWA)	1 ppm (TWA)

**Personal Protective Equipment**

**General Protection:** Wear appropriate personal protective equipment.  
**Eye Protection:** Wear chemical splash goggles or safety glasses with side shield.  
**Hand Protection:** Wear chemical-resistant gloves such as: Nitrile, neoprene, butyl.  
**Skin and Body Protection:** Wear long sleeve shirt/long pants and other clothing as required to minimize contact.  
**Respirator Protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.  
**General Hygiene:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Engineering Controls**

When using indoors good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Ready access to running water is required. Provide eyewash station.

**Additional Information**

**After Cure:** Product forms an innocuous solid. Processing after cure (grinding or cutting) may produce dust containing compounds that present an inhalation hazard.

**9. Physical and Chemical Properties**

Property	Resin	Hardener
Physical State:	Liquid	Liquid
Color:	Blue	Clear
Odor:	Strong Acrid	Ammonia
pH:	No data	12
Flammability limit – lower %:	No data	No data
Flammability limit – upper %:	No data	No data
Vapor Pressure:	No data	No data
Vapor Density:	No data	No data
Solubility:	Insoluble in water	Slightly soluble in water
Freezing/Melting Point:	No data	No data
Boiling Point:	No data	No data
Flash Point:	>250 °F (121.1 °C) Open Cup	230 °F (110 °C) Closed Cup
Evaporation Rate:	No data	No data
Decomposition Temperature:	No data	No data

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Specific Gravity:	No data	No data
VOC (after cure):	7 g/L	7 g/L
Kow:	No data	No data
Viscosity:	No data	No data
Corrosiveness:	Non-corrosive	Corrosive

### 10. Stability and Reactivity

#### Resin (blue side)

Reactivity:	This product is stable and non-reactive under normal conditions.
Chemical Stability:	Stable under normal storage conditions.
Condition to Avoid:	High heat and open flame.
Substances to Avoid:	Oxidizing agents, acids, organic bases, and amines.
Hazardous Reactions:	Hazardous polymerization does not occur.
Decomposition Products:	Carbon dioxide, carbon monoxide, oxides of nitrogen, and other organic compounds.

#### Hardener (clear side)

Reactivity:	This product is stable and non-reactive under normal conditions.
Chemical Stability:	Stable under normal storage conditions.
Condition to Avoid:	High heat and open flame.
Substances to Avoid:	Strong oxidizing agents. Strong acids. Epoxy resins.
Hazardous Reactions:	Hazardous polymerization does not occur.
Decomposition Products:	Carbon dioxide, carbon monoxide, oxides of nitrogen, and other organic compounds.

### 11. Toxicological Information

#### Likely Routes of Exposure Summary

Ingestion:	Harmful if swallowed. Causes digestive tract burns.
Inhalation:	Harmful if inhaled. Causes respiratory tract burns.
Skin contact:	Harmful in contact with skin. Causes severe skin burns. May cause an allergic skin reaction.
Eye contact:	Causes serious eye burns.

#### Information on Toxicological Effects – Supporting Data

**Acute toxicity:** Hardener is acutely toxic if ingested. Hardener is corrosive to the respiratory tract and skin, harmful if inhaled and harmful in contact with skin.

Product	Species	Test Result
CRACK-PAC® Hardener (CAS mixture)		
	Rat	900 mg/kg

<b>Skin corrosion/irritation:</b>	The hardener component of this product is corrosive and may cause skin burns. The resin component is considered a skin irritant; causes skin irritation.
<b>Eye damage/eye irritation:</b>	The hardener component of this product is corrosive to the eyes; causes eye burns. The resin component of this product is considered an eye irritant; causes serious eye irritation.
<b>Respiratory sensitization:</b>	Beneze-1, 3-Dimethaneamine is corrosive to the respiratory tract, inhalation may display with symptoms similar to respiratory sensitization.
<b>Skin sensitization:</b>	Ingredients in both components of this product are considered contact sensitizers.
<b>Germ cell mutagenicity:</b>	The available data does not indicate that any ingredient of this product present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity:</b>	This product is not considered a carcinogen by IARC, NTP, ACGIH, or OSHA.
<b>Reproductive toxicity:</b>	No data available.
<b>Aspiration hazard:</b>	No data available.
<b>Specific target organ toxicity:</b>	
<b>Single exposure</b>	Corrosive to the respiratory tract.
<b>Repeated exposure</b>	No data available.

#### Further Information

Toxicological, ecotoxicological, physical, and chemical properties may not have been fully investigated. Hazard data above is estimated based on best available information. Some workers with pre-existing medical conditions such as: asthma, allergies, or impaired pulmonary and/or liver functions, or who may be particularly susceptible to this material, may be affected by exposure to this material.

**12. Ecological Information**

**General Information**

Information given is based on data on the components and the ecotoxicology of similar products. Resin is classified as toxic to aquatic life with long lasting effects. Hardener is classified as harmful to aquatic life with long lasting effects. Avoid release to the environment.

**Supporting Data**

Component	Species	Test Result
Bisphenol-A/Epichlorohydrin (25068-38-6) Fish, LC50 <b>Aquatic, Crustacea, EC50</b>	Salmo Gairdneri	1.5 mg/l, 96 hours
	Daphnia Magna	2.7 mg/l, 48 hours
Benzene-1,3-dimethanamine (CAS 1477-55-0) <b>Aquatic, Crustacea, EC50</b>	Daphnia Magna	15.2 mg/l, 48 hours

**Persistence and degradability:** This product is not expected to be readily biodegradable.  
**Bioaccumulative potential:** No data available for this product.  
**Mobility in soil:** No data available.

**Further Information**

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

**13. Disposal Consideration**

**Waste Disposal of Substance:** Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.  
**Container Disposal:** Empty containers or liners may retain some product residues; follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.  
**Disposal of Cured Product:** Grind or chip off surfaces. Solid material does not need special disposal considerations.

**14. Transportation Information**

**Resin (blue side)**

**UN number:** UN3082  
**UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A-Epichlorohydrin), 9, III, Marine Pollutant  
**Transport hazard class(es):** 9  
**Precautions:** Marine Pollutant  
**Packing group:** III  
**Required Labels:** 9  
**Hazard ID (ADG):** D3Z  
**ERG Code (IATA):** 9L  
**EmS (IMDG):** F-A, S-F  
**Hazchem Code:** 2Y

**Hardener (clear side)**

**UN number:** UN2735  
**UN proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (Benzene-1,3-dimethanamine(MXDA)), 8, II  
**Transport hazard class(es):** 8  
**Precautions:** Corrosive  
**Packing group:** II  
**Required Labels:** 8  
**Hazard ID:** 2X  
**ERG Code (IATA):** 8L  
**EmS (IMDG):** F-A, S-B  
**Hazchem Code:** 2W

**Additional Information**

**Special precautions for user:** Read safety instructions, SDS and emergency procedures before handling.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:**

This substance/mixture is not intended to be transported in bulk.

This information does not cover all specific regulatory or operational requirements of this product. The classifications for transportation may vary by container volume or different regional or national regulations.

**15. Regulatory Information**

**Australian National Regulations**

This SDS was prepared following the Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals from Work Safe Australia. This product has been classified according to the hazard criteria of GHS and contains all of the information required by WHS.

**Listing in the Australian Inventory of Chemical Substances**

Chemical	AICS Listing
Bisphenol-A-Epichlorohydrin (Epoxy Resin) (CAS 25068-38-6)	Hazardous Substance High Volume Industrial Chemicals List (HVICL)
Benzene-1,3-dimethaneamine (CAS 1477-55-0)	Hazardous Substance International Programme on Chemical Safety - SIDS High Volume Industrial Chemicals List (HVICL)
Diethylenetriamine (CAS 111-40-0)	Hazardous Substance International Programme on Chemical Safety - SIDS

**New Zealand National Regulations**

New Zealand Code of Practice for the Preparation of Safety Data Sheets (SDS) [No. HSNO CoP 8-1 09-06].  
Classified as hazardous according to the Hazardous Substances (minimum Degrees of Hazard) Regulations 2001.

**HSNO: RESIN: 6.3A Skin Corrosion/Irritation; 6.4A Eye Corrosion/Irritation; 6.5B Skin Sensitization; 9.1D Aquatic Toxicity (Acute); 9.1B Aquatic Toxicity (Chronic). HARDENER: 6.1D Acute Toxicity (Oral, Inhalation, Dermal); 8.2B Skin Corrosion/Irritation; 8.3A Eye Corrosion/Irritation; 6.5B Skin Sensitization; 6.9A Specific Target Organ Systemic Toxicity (Corrosive to Respiratory Tract); 9.1D Aquatic Toxicity (Acute); 9.1C Aquatic Toxicity (Chronic).**

**New Zealand Inventory of Chemicals (NZIoC)**

Chemical	Registration Status
Bisphenol-A-Epichlorohydrin (Epoxy Resin) (CAS 25068-38-6)	HSNO Approved (HSR003180)
Benzene-1,3-dimethaneamine (CAS 1477-55-0)	May be used as a single component under an appropriate group standard
Diethylenetriamine (CAS 111-40-0)	HSNO Approved (HSR002966)

**South Africa National Regulations**

Simpson Strong-Tie South Africa is a subsidiary of Simpson Strong-Tie Australia and relies on the parent company to support many of the services it provides, one of these services is Safety Data Sheets (SDS). This SDS contains all of the relevant information required for the South African market, with the exception of the following information.

Local contact information for South African Poisons Centre – Phone: 0219 316129 or 021 6895227

Local Contact for Simpson Strong-Tie who has access to the SDS sheets - Houston Hank – Phone: 0873 540629

**REGISTERED OFFICE:** Unit 5, Fairway Business Park, Stibitz Street  
Westlake Business Park, Westlake 7945  
Cape Town, Western Province

**POSTAL ADDRESS:** PO Box 281 Bergvliet 7864

**PHONE:** 0873540629

**DIRECTORS:** Michael Herbert & Herbert Kuhn

**REGISTRATION #:** 2012/052288/07

**VAT #:** 4190262362

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South African Safety, Health, and Environmental regulations specific for this product:  
Hazardous Substances Act of 1973 (Act No. 15 of 1973): Not listed.

### International

The product is classified and labeled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work.

This product is not subject to or not applicable for any of the following International Regulations; **Stockholm Convention, Rotterdam Convention, Kyoto Protocol, Montreal Protocol, Basel Convention.**

### International Inventories

Country or Region	Inventory	On Inventory? (Yes/No)
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)	Yes
United States	Toxic Substances Control Act (TSCA) Inventory	Yes

### 16. Other Information

**Date Prepared or Revised:** September 2014  
**Supersedes:** August 2012  
**Prepared By:** Simpson Strong-Tie Co. | 5956 W. Las Positas Blvd Pleasanton, CA 94588 US

### Abbreviations

<b>ACGIH:</b>	American Conference of Governmental Industrial Hygienists
<b>AICS:</b>	Australian Inventory of Chemical Substances
<b>CAS No.:</b>	Chemical Abstract Service Registry Number
<b>ES:</b>	Exposure Standard
<b>GHS:</b>	Globally Harmonized System of Classification and Labeling of Chemicals
<b>HazChem Code:</b>	Emergency action code of numbers and letters that provide information to emergency services.
<b>HEPA:</b>	High-Efficiency Particulate Air
<b>HSNO:</b>	Hazardous Substances and New Organisms Act (New Zealand)
<b>IARC:</b>	International Agency for Research on Cancer
<b>IATA:</b>	International Air Transport Association
<b>IMDG:</b>	International Maritime Dangerous Goods code
<b>Kow:</b>	Octanol-Water Partition Coefficient
<b>NIOSH:</b>	National Institute of Occupational Safety and Health (U.S.)
<b>NZIoC:</b>	New Zealand Inventory of Chemicals
<b>OELs:</b>	Occupational Exposure Limits
<b>PEL:</b>	Permissible Exposure Limit
<b>SDS:</b>	Safety Data Sheet
<b>STEL:</b>	Short Term Exposure Limit (15 minute Time Weighted Average)
<b>STOT:</b>	Specific Target Organ Toxicity (GHS Classification)
<b>TLV:</b>	Threshold Limit Value
<b>TSCA:</b>	Toxic Substances Control Act (U.S.)
<b>TWA:</b>	Time Weighted Average (exposure for 8-hour workday)
<b>VOC:</b>	Volatile Organic Compounds
<b>WELs:</b>	Workplace Exposure Limits

### Disclaimer

This Safety Data Sheet (SDS) is prepared by Simpson Strong-Tie Co. The information it contains is offered in good faith as accurate as of the date of this SDS. This SDS is provided solely for the purpose of conveying health, safety, and environmental information. No warranty, expressed or implied, is given. Health and Safety precautions may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations.

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